



# STIC Search Report

## EIC 2800

STIC Database Tracking Number: 140530

TO: Mike Zarroli  
Location: jef 10a51  
Art Unit : 2839  
Tuesday, December 21, 2004

Case Serial Number: 10/765042

From: Irina Speckhard  
Location: EIC 2800  
CP4-9C18  
Phone: 308-6559

[irina.speckhard@uspto.gov](mailto:irina.speckhard@uspto.gov)

### Search Notes

Examiner Zarroli,

Please find attached prior-art search results from the patent and non-patent abstract and full-text databases. The results were based on claims and statements of technical problems and solutions. Tagged records might be worth your review as well as the rest of the references provided.

If you need further searching or have questions or comments, please let me know.

Thank you,

Irina Speckhard



# STIC Search Results Feedback Form

## EIC 2800

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Jeff Harrison, EIC 2800 Team Leader  
571-272-2511, JEF 4B68

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 2810

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2800, CP49313



# SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEP-4B68, 272-2511.

Date 12/14/04 Serial # 10/765042 Priority Application Date 1/28/04  
 Your Name Mike Zarroli Examiner # 76050  
 AU 2839 Phone 571-272-2101 Room JEFF 10A51

In what format would you like your results? Paper is the default. PAPER ☒ DISK ☐ EMAIL ☐

If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: ☒ USPT ☐ DWPI ☐ EPO Abs ☐ JPO Abs ☐ IBM TDB

Other: \_\_\_\_\_

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. none!

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☒ Other \_\_\_\_\_  
 Secondary Refs \_\_\_\_\_ Foreign Patents \_\_\_\_\_  
 Teaching Refs \_\_\_\_\_

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

See copy of claim 1 and relevant drawings.

## Staff Use Only

Searcher: Speckhard

Searcher Phone: \_\_\_\_\_

Searcher Location: STIC-BIC2800, JEP-4B68

Date Searcher Picked Up: 12/21/04

Date Completed: 12/21/04

Searcher Prep/Rev Time: 30

Online Time: 80

## Type of Search

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext ☒

Patent Family \_\_\_\_\_

Other all

## Vendors

STN \_\_\_\_\_

Dialog ☒

Questel/Orbit \_\_\_\_\_

Lexis-NEXIS \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

BEST AVAILABLE COPY

## SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1969-2004/Dec W2  
(c) 2004 Institution of Electrical Engineers

\*File 2: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 6:NTIS 1964-2004/Dec W1  
(c) 2004 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2004/Dec W2  
(c) 2004 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Dec W2  
(c) 2004 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2004/Dec  
(c) 2004 ProQuest Info&Learning

File 65:Inside Conferences 1993-2004/Dec W3  
(c) 2004 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2004/Nov W2  
(c) 2004 Japan Science and Tech Corp(JST)

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov  
(c) 2004 The HW Wilson Co.

File 144:Pascal 1973-2004/Dec W1  
(c) 2004 INIST/CNRS

File 305:Analytical Abstracts 1980-2004/Dec W3  
(c) 2004 Royal Soc Chemistry

\*File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 315:ChemEng. & Biotec Abs 1970-2004/Nov  
(c) 2004 DECHEMA

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200481  
(c) 2004 Thomson Derwent

\*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)  
(c) 2004 JPO & JAPIO

\*File 347: JAPIO data problems with year 2000 records are now fixed. Alerts have been run. See HELP NEWS 347 for details.

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

\*File 371: This file is not currently updating. The last update is 200209.

12/21/2004

10/765,042

Set	Items	Description
S1	196	AU=(KWARK, Y? OR KWARK Y?)
S2	0	S1 AND (INTERPOS? OR INTER() POS?)
S3	0	S1 AND ((BUTTON? ? OR PAD OR PADS) (3N) (ARRAY??? OR CONTACT? OR ADJACENT? OR NEXT OR NEAR OR CLOSE OR SPACE OR SPACED OR - COMPRESS?))
S4	0	S1 AND COMPRESS? (3N) THRESHOLD
S5	178594	INTERPOS? OR INTER() POS?
S6	31529	(BUTTON? ? OR PAD OR PADS) (3N) (ARRAY??? OR CONTACT? OR ADJ- ACENT? OR NEXT OR NEAR OR CLOSE OR SPACE OR SPACED OR COMPRES- S?)
S7	1069	COMPRESS? (3N) THRESHOLD
S8	571	S5 AND S6
S9	0	S8 AND S7
S10	0	S8 AND THRESHOLD
S11	84	S8 AND COMPRESS?
S12	0	S11 AND BUTTON? ? (1N) ARRAY
S13	7	S11 AND BUTTON?
S14	7	RD (unique items)
S15	77	S11 NOT S13
S16	76	RD (unique items)
S17	138	BUTTON? ? (1N) COMPRESS?
S18	2	S17 AND (INTERPOS? OR INTER() POSE?)
S19	2	RD (unique items)
S20	0	S19 NOT S14
S21	844	S5 AND BUTTON? ?
S22	2	S21 AND THRESHOLD
S23	2	RD (unique items)
S24	2	S23 NOT S14
S25	842	S21 NOT S22

14/3,AB/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015492378

WPI Acc No: 2003-554525/200352

XRPX Acc No: N03-440322

Solderless laser assembly used in e.g. compact disk player, has connection assembly which applies force for sandwiching laser diode and **button** carrier between printed circuit board and connection assembly

Patent Assignee: CIENA CORP (CIEN-N)

Inventor: ANDERSON R L; HARRIS D B; JABLONSKI E J; WALTER T A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6563696	B1	20030513	US 2001981050	A	20011017	200352 B

Priority Applications (No Type Date): US 2001981050 A 20011017

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6563696	B1		8	H05K-007/20	

Abstract (Basic): US 6563696 B1

Abstract (Basic):

NOVELTY - A connection assembly (20) connects a laser diode (12) having leads (14) and a heat sink (18) to a printed circuit board (PCB) (100) having multiple **pads** (102). A **compressible button** carrier (42) is **interposed** between laser diode and PCB. The connection assembly applies force for sandwiching laser diode and **button** carrier between the PCB and connection assembly, so as to connect leads of diode with pads of PCB.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method of connecting laser diode.

USE - Solderless laser assembly used in optical fiber systems, computer, television, compact disk (CD) player, laser printer, remote control device, instruction detection system.

ADVANTAGE - By using solder laser assembly, easy connection/disconnection of laser diode and heat sink to PCB is enabled. Easy inserting and testing of modified, repaired or updated components on PCB is enabled.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the solderless laser assembly.

laser diode (12)  
leads (14)  
heat sink (18)  
connection assembly (20)  
printed circuit board (100)  
multiple pads (102)  
pp; 8 DwgNo 5/5

14/3,AB/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014845077

WPI Acc No: 2002-665783/200271

Related WPI Acc No: 2003-708430

XRPX Acc No: N02-526745

Electrical interconnect system for connecting daughterboard and motherboard, has **interposers** with fuzz **buttons** which are in **contact** with central conductors of twinax cables that are extended into the **interposers**

Patent Assignee: NORTHROP GRUMMAN CORP (NOTH ); NORTHROP GRUMMAN CO (NOTH )

Inventor: BRADLEY R M; DRISCOLL M P; VETTER S

Number of Countries: 015 Number of Patents: 018

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020094705	A1	20020718	US 2001260893	P	20010112	200271 B
			US 2001328396	P	20011012	
			US 200236796	A	20020107	
CA 2367600	A1	20020712	CA 2367600	A	20020111	200271
FI 200200054	A	20020713	FI 200254	A	20020111	200271
GB 2371686	A	20020731	GB 2002600	A	20020111	200271
NO 200200142	A	20020715	NO 2002142	A	20020111	200271
SE 200200075	A	20020713	SE 200275	A	20020110	200271
DE 10200858	A1	20021107	DE 10200858	A	20020111	200273
CZ 200200108	A3	20021016	CZ 2002108	A	20020110	200279
JP 2002313498	A	20021025	JP 200239300	A	20020111	200303
KR 2002061122	A	20020722	KR 20021894	A	20020112	200305
CN 1392635	A	20030122	CN 2002101717	A	20020114	200332
FR 2832256	A1	20030516	FR 2002386	A	20020114	200334
HU 200200110	A1	20030528	HU 2002110	A	20020111	200341
TW 518806	A	20030121	TW 2002100164	A	20020108	200356
NL 1019735	C2	20030918	NL 20021019735	A	20020111	200374
SE 524822	C2	20041005	SE 200275	A	20020110	200466
GB 2371686	B	20041201	GB 2002600	A	20020111	200479
GB 2402561	A	20041208	GB 2002600	A	20020111	200480
			GB 200420652	A	20040916	

Priority Applications (No Type Date): US 200236796 A 20020107; US 2001260893 P 20010112; US 2001328396 P 20011012

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020094705	A1		43	H05K-001/00	Provisional application US 2001260893

Provisional application US 2001328396

Patent No	Kind	E	IPC Class
CA 2367600	A1	E	H01R-033/94
FI 200200054	A		H01R-000/00
GB 2371686	A		H01R-012/22
NO 200200142	A		H01R-009/09
SE 200200075	A		H01R-012/04
DE 10200858	A1		H01R-012/32
CZ 200200108	A3		H01R-012/04
JP 2002313498	A	99	H01R-013/658
KR 2002061122	A		H01R-012/14
CN 1392635	A		H01R-012/04
FR 2832256	A1		H01R-012/22
HU 200200110	A1		G08C-019/16
TW 518806	A		H01R-012/22
NL 1019735	C2		H01R-013/658
SE 524822	C2		H01R-012/04
GB 2371686	B		H01R-012/22
GB 2402561	A		H01R-012/22

Div ex application GB 2002600

Abstract (Basic): US 20020094705 A1

Abstract (Basic):

NOVELTY - Each of the twinax cables (40,42) has a central conductor

and an outer jacket separated by a dielectric. The daughterboard and motherboard **interposers** (30,32) each having fuzz **buttons** (50,52,60,62) are in electrical contact with the outer jackets. The cables have exposed portions extending beyond cable housing into the **interposers** respectively, such that the fuzz **buttons** are in contact with the central conductors.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Latching mechanism;
- (2) Differential signal transmission method using electrically shielded twinax cable; and
- (3) **Compression** mount electrical connector.

USE - Electrical interconnect system for connecting daughterboard and motherboard for differential and single-ended transmission applications.

ADVANTAGE - The use of fuzz **buttons** in the **interposers**, provides high reliability and multiple points of electrical contact with the motherboard or daughterboard. Therefore cross-talk between signal paths of adjacent twinax cables or adjacent co-axial cables within the electrical connector is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the electrical connector.

Daughterboard **interposer** (30)

Motherboard **interposer** (32)

Twinax cables (40,42)

Fuzz **buttons** (50,52,60,62)

pp; 43 DwgNo 1A/26

14/3,AB/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009401722

WPI Acc No: 1993-095232/199312

XRPX Acc No: N93-072811

Push-**button** setter for stop watch - has resilient sleeve providing water-tight seal and resetting bias for push-**button** head

Patent Assignee: MONDATNE WATCH STA (MOND-N); MONDAINE WATCH LTD (MOND-N)

Inventor: ERWIN B; WALTER A; AFFOLTER W; BERNHEIM E

Number of Countries: 015 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 532817	A1	19930324	EP 91810857	A	19911106	199312 B
CN 1072276	A	19930519	CN 92110296	A	19920903	199411
EP 532817	B1	19960131	EP 91810857	A	19911106	199609
DE 59107362	G	19960314	DE 91507362	A	19911106	199616
			EP 91810857	A	19911106	
ES 2084141	T3	19960501	EP 91810857	A	19911106	199625
CN 1036358	C	19971105	CN 92110296	A	19920903	200455

Priority Applications (No Type Date): CH 912797 A 19910920

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 532817 A1 G 11 G04B-037/10

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE

CN 1072276 A G04B-027/00

EP 532817 B1 G 6 G04B-037/10

Designated States (Regional): CH DE ES FR GB IT LI

DE 59107362 G G04B-037/10 Based on patent EP 532817



Abstract (Basic): EP 532817 A

The push-button setter has a sliding shaft (2) passing through the wall (1) of the watch case, fitted with a push-button head (3). The head rests against the base of a recess in the wall (1) enclosing the push-button head, in the depressed position of the latter. The outer section of the shaft beneath the push-button head is enclosed by an elastic sleeve (4), fitting between the inside of the push-button head and the base of the recess, so that it is compressed upon depression of the push-button head to fill the annular space around the shaft. The sleeve provides a water-tight seal for the shaft in the rest position of the push-button head and provides a resetting bias for the depressed push-button head.

ADVANTAGE - Accommodates mfg. tolerances of watch case with good operating reliability of push-button setting device.

Dwg.2/12

Abstract (Equivalent): EP 532817 B

Press button on a watch case, having an axle (2) which is displaceable in an opening (7) in the case wall (1), and which can be directly inserted in this opening without interposition of a further part, having a cup-shaped head (3;9;11) for actuating presenting an inwardly pointing rim (3a;9a;11a) and having a sleeve (4), made from an elastically flexible material, surrounding the axle (2) outside the opening (7) and constituting a gasket, said sleeve is squeezed with its ends between the inner side of the head (3) and the bottom (1a) of a recess (6) provided on the outside of the case wall (1) and surrounding concentrically with clearance the axle (2), said sleeve, in the non-depressed rest position of the press button, lies at a certain distance from the axle (2), said rest position is defined by the rest of a stopper (5) on the case wall, said stopper being provided on the inner end of the axle, said sleeve, in the depressed position of the press button, being compressed and deformed, characterised in that: the recess (6) is adapted to the external diameter of the rim (3a) of the head (3) in such a way that this rim (3a) engages with play into the recess (6), and penetrates so far in its rest position that the sleeve (4) is outwardly covered, the push-in depth of the press button is limited by a stop face (1a;1b) provided on the lower part of the recess (6), said stop face being part of the case wall, against which the rim (3a) is pushing, the sleeve (4) presents in the rest position of the press button also a distance from the inner peripheral wall of the rim (3a) of the head, and exhibits an elastic pretensioning necessary to obtain perfect watertightness and provides the return force for the displacement of the press button from the depressed position into its rest position during the release, and the sleeve (4) is in the depressed position of the press button radially deformed to such a point that it fills, at least for the most part, the annular space between the axle (2) and the inner periphery of the rim (3a;9a;11a) beneath the head (3;9;11).

(Dwg.1/10)

14/3,AB/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

008527160  
WPI Acc No: 1991-031244/199105

XRPX Acc No: N91-024178

Wash-down lavatory with low water consumption - has  
pneumatically-operated shutter and water jet(s) operated from single  
**compressed** air source

Patent Assignee: SANITAIRE EQUIP (SANI-N); SANITAIRE EQUIP SA (SANI-N)

Inventor: BOLZE B; PITTE D

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 410894	A	19910130	EP 90402161	A	19900726	199105 B
FR 2650170	A	19910201				199112
EP 410894	B1	19930922	EP 90402161	A	19900726	199338
DE 69003488	E	19931028	DE 603488	A	19900726	199344
			EP 90402161	A	19900726	
ES 2047287	T3	19940216	EP 90402161	A	19900726	199411

Priority Applications (No Type Date): FR 8910065 A 19890726

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

EP 410894	A				
					Designated States (Regional): DE ES GB IT

EP 410894	B1	F	11	E03D-005/012	
					Designated States (Regional): DE ES GB IT

DE 69003488	E			E03D-005/012	Based on patent EP 410894
-------------	---	--	--	--------------	---------------------------

ES 2047287	T3			E03D-005/012	Based on patent EP 410894
------------	----	--	--	--------------	---------------------------

Abstract (Basic): EP 410894 A

A wash-down lavatory with very low water consumption consists of a bowl (1) which is generally conical in shape, with a shutter (14) at its smaller, lower end, operated by a pneumatic cylinder (15). The bowl is washed down with water from one or more nozzles (9, 9') at the rim, delivered at high pressure.

The pneumatic cylinder and the pressurised water are both controlled by a **compressed** air unit (4) with a distributor which synchronises the opening of the shutter and the delivery of the water jets. The distributor can be actuated by a control **button** (13) situated **close** to the toilet bowl so it can be operated manually by the user.

ADVANTAGE - Has very low water consumption, e.g. 25 cl at a time, and is suitable for use in road or rail vehicles or in mobile homes such as caravans, where **compressed** air is readily available but water is restricted. (9pp Dwg.No.1/2)

Abstract (Equivalent): EP 410894 B

Sanitary toilets with direct evacuation and rinsing without flush effect nor siphon, of the type constituted by a pan (1) of generally truncated shape comprising at the level of its small base in lower position a trap (14) controlled by a pneumatic jack (15), said pan being in communication by intermittence with an evacuation conduit (19); and the pan further comprises at least one nozzle (9) for projecting rinsing and evacuation water coming from a source of rinsing liquid under pressure, the toilets are connected to a source of **compressed** air in communication on the one hand with a chamber (31) for pressurising the rinsing and evacuation water in order to ensure supply under high pressure of the nozzles (9,9') and, on the other hand, with the pneumatic jack (15) for manoeuvring the trap (14), such communication being effected by a pneumatic distributor valve (28) with register ensuring regulation and control of the evacuation cycle comprising the synchronised phases in the first place of opening of the trap and of projection of pressurised water and, in the second place, of closure of the trap and stopping of the projection of water and, to

that end, the distributor valve (28) is connected to a first contactor, constituted by a manual contactor (47) in position accessible for the user and adapted to ensure displacement of the register, ensuring initialisation of the cycle of evacuation and of rinsing by placing the source of **compressed** air (25) in communication with the chamber (31) for pressurising the rinsing and evacuation water as well as by placing the source of **compressed** air (25) in communication with a first inlet of the jack for manoeuvring the trap, ensuring placing of the latter in position of opening, characterised in that the pressurising chamber (31) is constituted by a cylinder containing a piston (35) separating said chamber into two volumes, viz. a dry volume (38) at the rear of the piston communicating, via the distributor valve, with the source of **compressed** air (25) and thus ensuring the displacement of the piston against the action of a return member (41) and a volume (38') receiving water, at the front of the piston, communicating, with the **interposition** of non-return valves (34,36) with a source of water on the one hand and with the nozzles projecting water into the pan on the other hand, with the result that the displacement of the piston under the action of the **compressed** air on its rear face, provokes the pressurisation of the water by the front face of the piston, thus supplying the projection nozzles, the return of the piston provoked by said return member ensuring in opposite direction the filling afresh of said volume (38') receiving water.

(Dwg.1/2

14/3,AB/5 (Item 5 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

004464573

WPI Acc No: 1985-291451/198547

XRPX Acc No: N85-217296

Numerical display label - has discs carrying numbers etc. rotatably mounted inside sealed box with opening allowing manual adjustment

Patent Assignee: AGW SARL (AGWA-N)

Inventor: GAUTIER D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2562696	A	19851011	FR 8316109	A	19831011	198547 B

Priority Applications (No Type Date): FR 8316109 A 19831011

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2562696	A		5		

Abstract (Basic): FR 2562696 A

A number of discs (6) inside a closed box carry symbols on their front faces that can be read through the box front face (2). Each disc has an axial **button** on its rear face projecting through a box rear face orifice to allow manual disc position regulation.

A seal is **interposed** between the axial **button** and the box rear face to prevent liquid penetration into the box via the rear orifice. The seal is a rubber joint (8) radially **compressed** between the axial **button** and a projection (9) on the interior wall of the box rear face.

USE - To provide an easily washed disinfected numerical display label.

14/3,AB/6 (Item 1 from file: 347)  
 DIALOG(R)File 347:JAPIO  
 (c) 2004 JPO & JAPIO. All rts. reserv.

04368628  
 EJECTION DETECTION PROCESSOR FOR IC MEMORY CARD

PUB. NO.: 06-012528 [JP 6012528 A]  
 PUBLISHED: January 21, 1994 (19940121)  
 INVENTOR(s): ITOGA TOSHIYOSHI  
 APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP  
 (Japan)  
 APPL. NO.: 04-169065 [JP 92169065]  
 FILED: June 26, 1992 (19920626)  
 JOURNAL: Section: P, Section No. 1727, Vol. 18, No. 214, Pg. 145,  
 April 15, 1994 (19940415)

#### ABSTRACT

PURPOSE: To decrease the number of components and to reduce a space on the assumption that ejection detection is performed prior to the actual extraction of the IC memory card.

CONSTITUTION: An ejection arm 16 supported pivotally on a shaft 18 so as to be freely and rockingly is coupled with an ejection bar 14 by a long hole 16b and a pin 14b, the ejection bar 14 and an ejection **button** 13 are fitted in a relatively displaceable state, and a **compression** spring 15 fitted externally onto the end part of the ejection bar 14 is **interposed** between a stopper 14a and the ejection **button** 13. An ejection detection switch 17 is turned ON when an operation piece 17a comes into **contact** with the ejection **button** 13 at its home position and while the **compression** spring 15 is **compressed**, the ejection detection switch 17 is turned OFF by the depressing operation of the ejection **button** 13 within a range wherein the ejection bar 14 is not moved, thereby imparting the interruption for ejection detection.

14/3,AB/7 (Item 2 from file: 347)  
 DIALOG(R)File 347:JAPIO  
 (c) 2004 JPO & JAPIO. All rts. reserv.

01386126  
 TRIMMING PIERCING DIE

PUB. NO.: 59-097726 [JP 59097726 A]  
 PUBLISHED: June 05, 1984 (19840605)  
 INVENTOR(s): OKUJIMA YASUAKI  
 HIRAI HIROKO  
 APPLICANT(s): NISSAN MOTOR CO LTD [000399] (A Japanese Company or Corporation), JP (Japan)  
 APPL. NO.: 57-205947 [JP 82205947]  
 FILED: November 26, 1982 (19821126)  
 JOURNAL: Section: M, Section No. 328, Vol. 08, No. 210, Pg. 49,  
 September 26, 1984 (19840926)

#### ABSTRACT

PURPOSE: To remove obstacles in attaching a piercing punch by connecting a sliding plate in a holder and a pad by a member which penetrates an upper

holder and further **interposing** elastic bodies between the sliding plate in the holder and a fixed plate.

CONSTITUTION: A desired die is composed by connecting a movable plate 24 in a holder 21 and a pad 22 by connecting members 23 which penetrate the upper holder 21 and further **interposing** elastic bodies 25 between the plate 24 and a fixed plate 26. Next, a ram 2 is lowered to bring the **pad** 22 into **contact** with a work piece W placed on a punch 8, and sectional dies 6 trim the work piece W in corporation with the punch 8 while pressing the piece W by an elastic force of the **compressed** elastic bodies 25, and piercing punches 9 perform punching in corporation with **button** dies 11. Thus, even in an upper die provided with a large number of piercing punches, a required number of elastic bodies for energizing a pad 22 can be arranged regardless of the positions and the number of punches.

24/3,AB/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05904244

MOUSE FOR CONTROLLING DISPLAY DEVICE OF COMPUTER

PUB. NO.: 10-187344 [JP 10187344 A]  
PUBLISHED: July 14, 1998 (19980714)  
INVENTOR(s): MASUDA SHIZUAKI  
APPLICANT(s): NEC SHIZUOKA LTD [489142] (A Japanese Company or Corporation)  
, JP (Japan)  
APPL. NO.: 08-339358 [JP 96339358]  
FILED: December 19, 1996 (19961219)

#### ABSTRACT

PROBLEM TO BE SOLVED: To obtain the power saving effect of a mouse without generating the difference of operability by an operator.

SOLUTION: This is a mouse 2 for controlling the display device of a computer in which a control circuit 2' is operated after a power is supplied from a computer 4, and the display device of the computer 4 is controlled through a signal line 6B. The mouse 2 is provided with a power line 6A for supplying a power from the computer 4 to the control circuit 2', and a switch 2c is **interposed** in the middle of the power line 6A. The switch 2c is an automatic return type press **button** switch attached so as to be allowed to abut to a face on which the mouse 2 is placed, and the switch 2c is turned into an on-state only when it is detected that weight more than **threshold** weight beyond self-weight is imposed on the mouse 2.

24/3,AB/2 (Item 1 from file: 371)  
000910515

Title: Soupape de regulation pour autocuiseur.

Patent Applicant/Assignee: SITRAM

Applicant Address: SOCIETE INDUSTRIELLE DE TRANSFORMATION DE METAUX -  
SITRAM (SOCIETE ANONYME)- Deposant - 36170 SAINT-BENOIT-DU-SAULT  
FRANCE (FR-36170)

Inventor(s): COMBE GILLES - RUE AUCLERT DESCOTTES 36200 ARGENTON SUR  
CREUSE FRANCE (FR-36200)

Legal Representative: BOETTCHER

Document Type: Patent / Brevet

Patent and Priority Information (Country, Number, Date):

Patent: FR 2720617 - 19951208

Application: FR 946752 - 19940602

Priority Application: FR 946752 - 19940602

#### Abstract:

Le regulateur de pression (12) a au moins deux seuils de fonctionnement pour un autocuiseur du type comportant un corps de soupape (14) fixe au couvercle (10) d'un autocuiseur et dans lequel est forme un siege de soupape (32) et un pointeau (56) qui porte une masse de tarage (80) et qui est en appui sur le siege (32), est tel que le pointeau (56) est monte coulissant par rapport a la masse de tarage (80), qu'un ressort (64) de compression est **interpose** entre le pointeau (56) et la masse de tarage (80), et qu'il est prevu des moyens de reglage de la valeur de l'effort exerce par le ressort (64) sur le pointeau (56) comprenant des moyens (82, 84) mis en oeuvre selectivement pour s'opposer au deplacement vers le haut de la masse de tarage (86) par

rapport au corps de soupape (14) sous l'effet de la pression appliquee au  
pointeau (56) au travers du siege (32).

Legal Status (Type, Action Date, BOPI No, Description):

Publication	19951208	9549	Date published
Search Report	19951208	9549	Date Search Report published
Claim Mod			Modified claim
Grant	19960712	9628	Date granted